PYLE®

www.PyleAudio.com

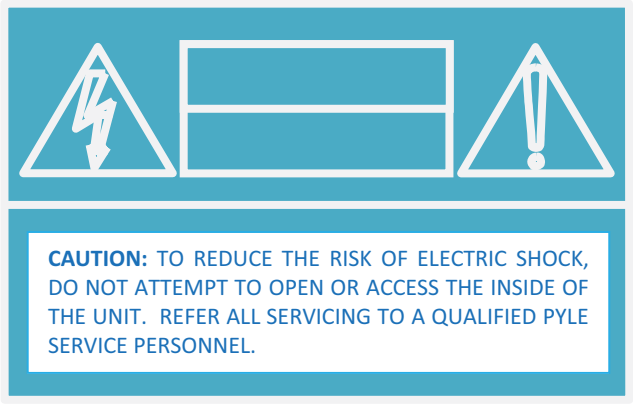
PMX401
PMX402M
PMX602M
PMX630i
PMX640BT
PMX802M
PMX830i
PMX840BT

PMX Series Multi-Channel Mixers

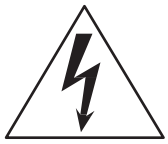
USER MANUAL

Warnings

- Please be sure to read, keep and refer to instructions listed in this manual.
- Do not use this device near water or expose to moisture.
- Clean only with a dry cloth.
- Do not block any ventilation openings and allow adequate space for air flow during operation.
- Do not install near any heat sources or other devices that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug.
- Protect the power cord from any kind of damage or corrosion.
- Unplug the mixer when not in use or when unused for long periods of time.
- Refer all service to qualified service personnel. Servicing is required when the mixer has been damaged or performs in an unusually.
- Use only speaker cables when connecting speakers to amplifier outputs. Using other types of cables is a fire hazard.
- Exposure to extremely high noise levels may cause in permanent hearing loss. Individuals vary considerably to noise induced hearing loss but take precaution when listening at high levels.
- If the power cord is damaged (i.e., cut or a bare wire is exposed), ask your dealer for a replacement. Using the unit with a damaged power cord is a fire and electrical shock hazard.
- Should this unit be dropped or the cabinet be damaged, turn the power switch off, remove the power plug from the AC outlet, and contact your dealer. If you continue using the unit without heeding this instruction, fire or electrical shock may result.


CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT ATTEMPT TO OPEN OR ACCESS THE INSIDE OF THE UNIT. REFER ALL SERVICING TO A QUALIFIED PYLE SERVICE PERSONNEL.

If the unit is damaged or non-operational, please notify your dealer and the shipping company immediately. Claims for damage or replacement may not be granted if not reported properly or in a timely manner.



This lightning flash symbol is intended to alert the user to the presence of uninsulated and “dangerous voltage” within the mixer's enclosure that may be of sufficient power to constitute a risk of electric shock.

This exclamation point symbol is intended to alert the user to the presence of important operating and maintaining instructions, that one should pay attention to and keep for future reference.

- Connect this unit’s power cord only to an AC outlet of the type stated in this Manual or as marked on the unit. Failure to do so may result in fire and/or electrical shock.
- Do not place heavy objects on top of the power cord. A damaged power cord is also a fire and electrical shock hazard.
- Use only the included power cord for this unit, using other types may again result in fire and electrical shock.
- Do not set all equalizer controls and faders to maximum levels. Doing so may cause oscillation depending on the condition of the connected unit and speakers, and may also damage the speakers.
- The performance of components on this mixer such as switches, rotary controls, faders, and connectors, deteriorates over time. The rate depends on the operating environment and is sometimes unavoidable. Consult your dealer about replacing defective components.

Installation

Install the mixer on an even surface to allow for sufficient airflow and ventilation during use. The device is equipped with electronically controlled cooling fans to protect against thermal overload and internal circuitry from damage due to extreme heat. Please avoid covering any sides of the unit or placing objects or other audio devices too close to your mixer. Prior to connecting and powering on the unit, make sure that the device matches the voltage and frequency of your power supply. Power off the mixer when not in use.

Cables and Connections

RCA	**1/4'' TRS and Mono**	**XLR 3-Pin**
RCA connector jacks have been most commonly used in home audio systems and configurations for years. Also known as RCA 'phono', 'plugs' or 'audio connectors' , these jacks are always unbalanced, and generally carry a line-level signal at –10 dB, nominal signal levels. The RCA connector jacks are most likely used when connecting an audio device like a media player or other home audio type source to your mixer. These connector jacks are also used when connecting to the output of your devices.	1/4'' mono and stereo connector jacks are labeled for use as unbalanced mono, unbalanced stereo, balanced mono, or as an insert patch point. A 1/4'' TRS (Tip, Ring, Sleeve), 3-conductor connection, or 'Stereo' cable allows a single connection signal to carry 2-channels of audio; also can be used for mono balanced signals. While, a 1/4'' TS (Tip, Sleeve), 2-conductor, or 'Mono' cable are most popularly known for their use in guitar or line-level instrument connection; they can also be used for mono unbalanced signals.	XLR connector jacks, almost always carries a balanced signal. Depending on your device, these connector jacks may also be capable of handling unbalanced signals. Microphones generally have this type of connector, as well as most other professional audio equipment and devices. Typical 3-Pin XLR sockets are fixed with the right-most pin being the 'ground', the left-most pin being 'hot' and the bottom pin as the 'neutral'.

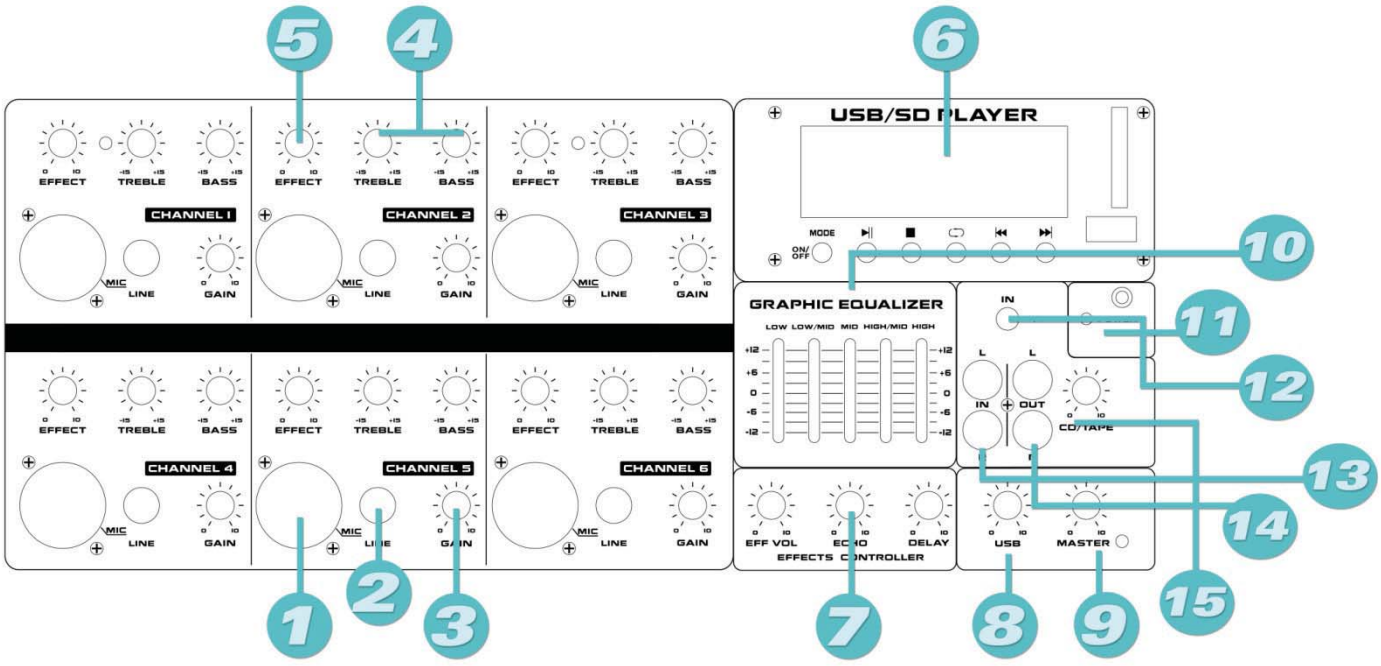
Technical Specifications

Mono Inputs **Microphone Inputs (XENYX Mic Preamp)**	XLR, electronically balanced, discrete input circuit
Mic E.I.N. (20Hz - 20kHz) **@ 0 Ohm Source Resistance** **@50 Ohm Source Resistance** **@150 Ohm Source Resistance**	-134dB / 135.7dB A-Weighted -131dB / 133.3dB A-Weighted -129dB / 130.7dB A-Weighted
Frequency Response	<10Hz - 150kHz (-1dB) <10Hz - 200kHz (-3dB)
Gain Range	+10dB to +60dB
Maximum Input Level	+12dB @ +10dB Gain
Impedance	Approximately 2.6k Ohm, Balanced
Signal-to-Noise	110dB / 112dB A-Weighted
Distortion (THD +N)	0.005% / 0.004%, A-Weighted
Line Input	1/4'' TRS Connectors, Electronically Balanced
Channel Equalization **(Frequency Hz)**	Control Range High: @ 10k +/-15dB Control Range Low: @60k +/-15dB
Master 5-Band Graphic EQ	Frequency: Hz (60, 250, 1K, 4K, 12K) Control Ranges: +/-12dB

Connector Specifications

Effects Connectors **Effects Send - Effects Return**	1/4'' TS Connector, Unbalanced Impedance: Approx. 1k Ohm Output Level: -10dB
Control Room Outputs	RCA Unbalanced Impedance: Approx. 1k Ohm Output Level: -10dB
Headphone Output	1/4'' TRS Connector, Stereo Output Level: +19dB / 150 Ohm (+25dB)

Mixer Layout and Controls - Front Panel

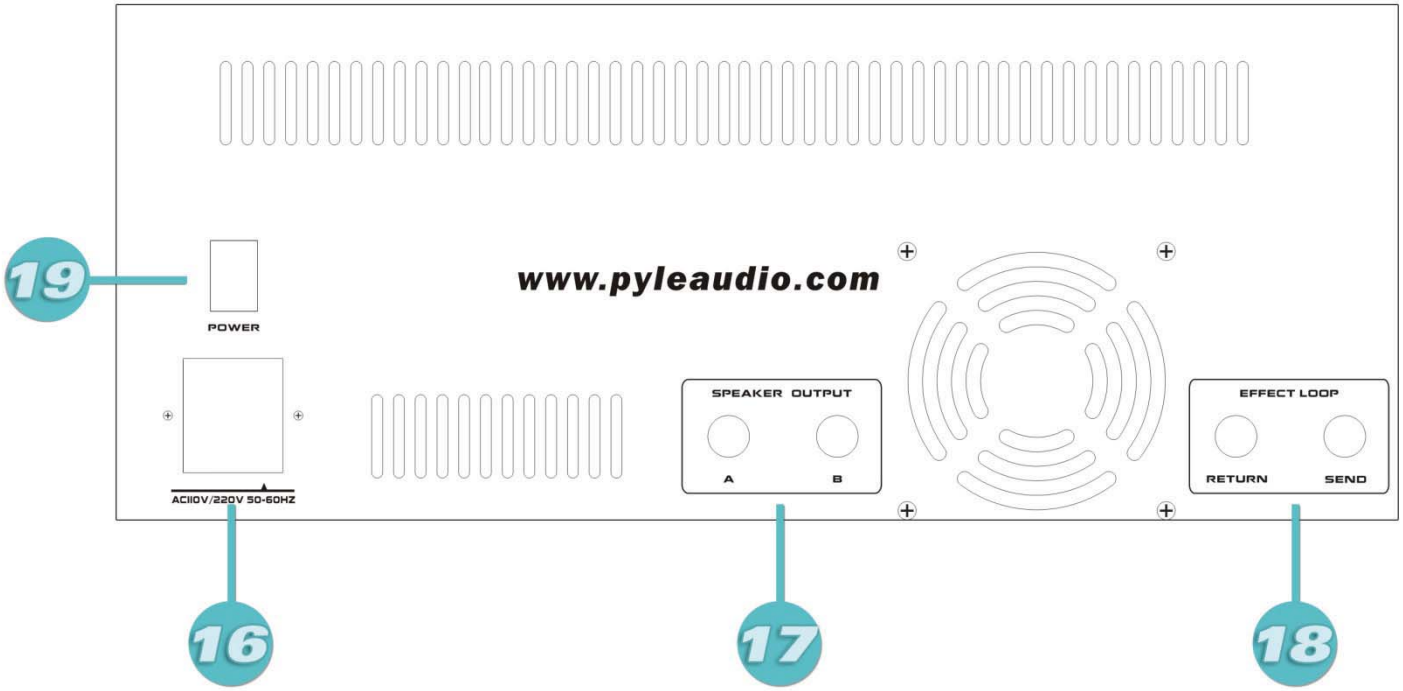


*Please note, the diagram above does not reflect all Pyle 'PMX' Series models. Some features listed are model specific, and are just made for descriptive purposes for a more thorough understanding of the PMX Series Mixers. To view model specific information, please visit www.PyleAudio.com and browse for the specific model number. (**PMX Mixer Series Models: PMX401, PMX402M, PMX602M, PMX630I, PMX640BT, PMX802M, PMX830I, PMX840BT)**

1.	3-PIN LOW IMPEDANCE MIC INPUT	Electronically balanced XLR input is designed to accept signals from any balanced or unbalanced low impedance (Low Z) microphone. (Pin 1 to the shield, Pin 2 to the 'hot' (positive polarity) side of the audio signal, and Pin 3 to the 'cold' side of the signal. Dynamic or ribbon-type microphones do not require phantom power. Microphone inputs are generally more sensitive than the Line inputs.
2.	1/4'' LINE INPUT	Line/High impedance input, 1/4” connector jack is designed to accept balanced or unbalanced line-level signals such as those from keyboards, drum machines, or samplers. There is enough gain available on the line input to accept even lower level signals, such as those from an unbalanced microphone or guitar output. If a balanced signal is to be connected to the line input, then a 1/4” TRS (stereo) phone plug should be wired for: Tip = positive (+), Ring = negative (-), Sleeve = ground.

3.	GAIN CONTROL	Adjust the volume for the selected channel's signal. It send the signal to the master mix buss, please remember this function allows the unit to act as a pre-amp (...so if you are using a device that has its own unique volume control, you will need to perform some volume adjustment and level matching. Optimal sound performance is achieved when audio distortion is at a minimum.
4.	EQ CONTROL - INDEPEDANT CHANNEL	Independent channel selection allows equalization effect controls for the input signal. This gives you the ability to adjust the overall tone of the selected input. It acts as a cut or boost control, that adds to or diminishes the sound quality - 60Hz - 10kHz (+/- 15dB).
5.	EFFECT CONTROL - INDEPEDANT CHANNEL	Also known as EFFX controls, this is a 'send' control to the reverb buss. It controls the amount of reverberation added to the selected destination channel input signal.
6.	LCD DISPLAY - USB/SD CONTROL	Use the digital LCD control panel and touch button to control your connected flash memory drive. Take music from your computer's media library, transfer it to your removable memory storage device and let it play through the mixer. Supports MP3 and WMA music formats.
7.	EFFECTS CONTROLLERS	Take control of the Effects Volume, Effects Echo and Effects Delay. Control the overall signal level of the effects 'mix' that is received. Delay and Echo controls allow you to variably adjust the effect interval time. Set this control lower for shorter Echo times to emulate similar 'doubling' effects while setting a higher level provides longer effect times for 'stadium-like' delay sound.
8.	USB/SD VOLUME CONTROL	Adjust the volume for connected media streaming via USB Flash Memory or SD Memory Cards
9.	MASTER VOLUME CONTROL	Adjust the volume for the entire mixer and connected devices playing through the mixer.
10.	MASTER GRAPHIC EQUALIZER CONTROL	(Low - Low/Mid - Mid - Mid/High - High), these master EQ controls allow you to adjust the levels of signal frequencies. 5-Band frequency. graphic EQ faders put you in control and allow you to achieve optimal sound performance. Adjust the faders accordingly with different acoustic and environmental conditions.
11.	POWER LED	This LED will illuminate when the unit is switched on.
12.	AUX (3.5mm) INPUT	Auxiliary input connector jack for connecting devices like MP3 Players, Smartphones, Tablets, etc.
13.	CD/TAPE: INPUT	Use the RCA (L/R) input connector jacks to connect a stereo signal output device to the mixer. (CD, Tape, Cassette, MP3, Smartphone, Tablet, Mac, PC, Laptop, etc.)
14.	REC: OUTPUT	This signal RCA (L/R) output connector jacks are for connecting an external device to record from the mixer. Both channels are conformed into mono for compatibility. The signals are then taken 'pre-master' meaning the signal is without reverb or the master tone section does not include the tape signal. The connected signal becomes the 'main' bus signal before passing through the mixer's 'master' level controls and graphic equalizer. (Impedance: 1k Ohm @ -10dB)
15.	INPUT VOLUME CONTROL	This control adjusts the level of the input signal applied to the CD/TAPE Input.

Mixer Layout and Controls - Back Panel



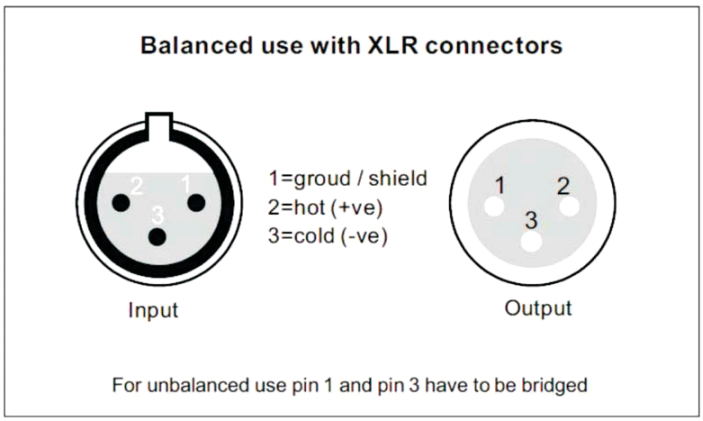
16.	AC POWER	The power supply cable is the standard voltage for US AC wall outlets. It is grounded and should never have the ground pin removed for any reason.
17.	SPEAKER OUTPUTS	1/4'' speaker outputs (A/B). Standard 2-conductor phone jacks are wired in parallel, with each having the ability to connect to your speaker system.
18.	EFFECT LOOP	**Return:** Mono unbalanced 1/4'' connector jack for incorporating return effect or other line level source. It brings the output of the external effects device back into the mixer for further processing. (Impedance: 10K Ohms @ -10dB). **Send:** Mono unbalanced 1/4'' 2-Conductor line outputs. Used to connect additional recording device or external effects processor. Applies to the input of an external effects unit and allows you to 'send' your dedicated signal out to the connected external device. (Impedance: 1k Ohm @ -10dB).
19.	POWER SWITCH	Control the power of the unit ON/OFF. When the unit is powered on, the LED indicator light on the front will shine blue.

Balanced vs. Unbalanced

Balanced lines are made specifically for reducing audio interference and noise rejection. The rule of thumb says, the longer the cable, the more noise your audio signal is likely to encounter. Your audio cable acts as an antenna and has the ability to pickup neighboring frequencies, and other environmental factors, that may interfere with the way your sound performs. The 'noise' that can affect your audio signals include electromagnetic sound waves that are generated by devices like neighboring sound processors, computers, fans, motors, etc. Therefore, balanced lines are the best option for running long cable through your audio equipment. However, if your audio equipment is confined within a single room or small space, then unbalanced lines will function sufficiently; keep in mind, the less interfering electromagnetic wave producing devices around your equipment, the better. Balanced connector lines are also widely used with microphone connection. The output signal from most microphones is rather small, so even the smallest amount of interfering 'noise' will be evident to your ears.

Models: PMX630i and PMX830i - with Built-in 30-Pin iPod Docks

Models: PMX640BT and PMX840BT - with Built-in Bluetooth Wireless Music Streaming



All 'PMX' Mixers come with included power cable:

Audio Connections and Additional Notes:

We should like to draw your attention to the fact that extreme volumes may damage your hearing and/or your headphones or loudspeakers. Turn the MAIN MIX control and phones control in the main section fully down before you switch on the unit. Always be careful to set appropriate volume levels.

Please, preferably, use commercial quality RCA cables to wire the inputs and outputs. You can, of course, also connect unbalanced devices to the balanced input/outputs. Use either mono plugs, or ensure that ring and sleeve are bridged inside the stereo plug (or pins 1 & 3 in the case of XLR connectors).

You will need a larger number of cables for the various connections to and from the mixer console. Please operate with care, follow instructions and use only high-grade connection cables during any and all operation.

Please use only the power supply unit provided with the console.

'PMX' Mixer Series Models & Specifications:

PMX630i

- 6-Channel System Power Mixer
- (6) Balanced 3-Pin Microphone Inputs
- (6) 1/4" High Impedance Inputs
- Built-in 30-Pin iPod Dock
- Aux (3.5mm) Input Connector Jack
- Connect iPod, MP3 Players, iPhone, Smartphones, Tablets, etc.
- Master System EFFX, EQ & Volume Controls
- 5-Band Graphic Equalizer
- Effects Control & Send
- USB Flash & SD Memory Card Readers
- File Compatibility: MP3 & WMA Formats
- LCD Digital Display Screen with Touch Button Controls
- Independent Channel EQ, Treble, Bass, Reverb Controls
- 1/4" Send/Return Jacks & (2) Conductor …□ Speaker Outputs
- RCA (L/R) Record Connector Jacks
- Convenient Carry Handle
- Built-in Cooling Fan

Technical Specs:

- Maximum Power Output: 600 Watts 4-Ohms
- Frequency Response: <10Hz - 150Hz (-1dB)
- Max. Input Level +12dBu @ +10dB Gain
- S/N Ratio: 110dB / 112dB A-Weighted
- Channel Tone Adjust (+/-15dB)
- Gain Range: +10 to +60dB
- Master EQ Control Ranges: +/- 12dB
- Distortion (THD+ N): 0.005% / 0.004%
- Power: 110/220 Voltage Switchable
- Dimension: 17.91" x 12.79" x 9.64"

PMX830i

- 8-Channel System Power Mixer
- (8) Balanced 3-Pin Microphone Inputs
- (8) 1/4" High Impedance Inputs
- Built-in 30-Pin iPod Dock
- Aux (3.5mm) Input Connector Jack
- Connect iPod, MP3 Players, iPhone, Smartphones, Tablets, etc.
- Master System EFFX, EQ & Volume Controls
- 5-Band Graphic Equalizer
- Effects Control & Send
- USB Flash & SD Memory Card Readers
- File Compatibility: MP3 & WMA Formats
- LCD Digital Display Screen with Touch Button Controls
- Independent Channel EQ, Treble, Bass, Reverb Controls
- 1/4" Send/Return Jacks & (2) Conductor …□ Speaker Outputs
- RCA (L/R) Record Connector Jacks
- Convenient Carry Handle
- Built-in Cooling Fan

Technical Specs:

- Maximum Power Output: 600 Watts 4-Ohms
- Frequency Response: <10Hz - 150Hz (-1dB)
- Max. Input Level +12dBu @ +10dB Gain
- S/N Ratio: 110dB / 112dB A-Weighted
- Channel Tone Adjust (+/-15dB)
- Gain Range: +10 to +60dB
- Master EQ Control Ranges: +/- 12dB
- Distortion (THD+ N): 0.005% / 0.004%
- Power: 110/220 Voltage Switchable
- Dimension: 20.67" x 12.80" x 9.64"

PMX640BT

- Bluetooth Wireless Music Streaming
- Works with Virtually Any Bluetooth Enabled Device
- (iPhone, Android, Smartphone, iPad, Tablet, PC, etc.)
- Digital LCD Display & Front Facing Control Center
- USB Flash Drive & SD Memory Card Readers
- 3-Pin Low Impedance Balanced Microphone Inputs
- 1/4" Line/ High Impedance Balanced Inputs
- Independent Channel Volume, EQ & EFFX Controls
- Master 5 Band Graphic Equalizer
- EQ & Master EFFX Control of Level, Echo & Reverb Controls
- Aux (3.5mm) Input Jack for Connecting External Devices
- Headphone Output: 1/4" TRS Stereo Connector
- RCA & 1/4" Effects Loop Connectors
- Additional RCA Inputs: Tape Play (L/R), Tape Record (L/R)

Technical Specs:

- 600 Watt Output Power
- 8 Ohm Impedance Each Channel
- Line Level Impedance 10K Ohms @ -10dBv
- Mono Microphone Inputs (XENYX Mic Pre-Amp)
- XLR: Electronically Balanced Discrete Input Circuit
- Frequency Response: <10Hz□150kHz (-1dB), <10Hz□200kHz (-3dB)
- Gain Range: +10 - +60dB
- Max. Input Level: +12dBu @ +10dB Gain
- Impedance: Approx. 2.6k ∧ Balanced
- Signal-to-Noise Ratio: 110dB / 112dBA □ Weighted
- Distortion: (THD+N): 0.005% / 0.004% A- Weighted
- Channel Equalization: Control Range
- High @ 10K +/-15dB, Low @ 60K +/-15dB
- Master EQ Frequency Hz: 60, 250, 1K, 4K, 12K
- Boost/Cut Control: +/-12dB

PMX840BT

- Bluetooth Wireless Music Streaming
- Works with Virtually Any Bluetooth Enabled Device
- (iPhone, Android, Smartphone, iPad, Tablet, PC, etc.)
- Digital LCD Display & Front Facing Control Center
- USB Flash Drive & SD Memory Card Readers
- 3-Pin Low Impedance Balanced Microphone Inputs
- 1/4" Line/ High Impedance Balanced Inputs
- Independent Channel Volume, EQ & EFFX Controls
- Master 5 Band Graphic Equalizer
- EQ & Master EFFX Control of Level, Echo & Reverb Controls
- Aux (3.5mm) Input Jack for Connecting External Devices
- Headphone Output: 1/4" TRS Stereo Connector
- RCA & 1/4" Effects Loop Connectors
- Additional RCA Inputs: Tape Play (L/R), Tape Record (L/R)

Technical Specs:

- 800 Watt Output Power
- 8 Ohm Impedance Each Channel
- Line Level Impedance 10K Ohms @ -10dBv
- Mono Microphone Inputs (XENYX Mic Pre-Amp)
- XLR: Electronically Balanced Discrete Input Circuit
- Frequency Response: <10Hz□150kHz (-1dB), <10Hz□200kHz (-3dB)
- Gain Range: +10 - +60dB
- Max. Input Level: +12dBu @ +10dB Gain
- Impedance: Approx. 2.6k ∧ Balanced
- Signal-to-Noise Ratio: 110dB / 112dBA □ Weighted
- Distortion: (THD+N): 0.005% / 0.004% A- Weighted
- Channel Equalization: Control Range
- High @ 10K +/-15dB, Low @ 60K +/-15dB
- Master EQ Frequency Hz: 60, 250, 1K, 4K, 12K
- Boost/Cut Control: +/-12dB

'PMX' Mixer Series Models & Specifications:

PMX401

- 4-Channel System Power Mixer
- (4) Balanced Microphone Inputs
- (4) 1/4" Line/High Impedance Inputs
- RCA Audio Input & RCA Audio Output
- Aux (3.5mm) Input Connector Jack
- Audio Line-In: Connect Devices like Smartphones & MP3 Players
- 1/4" Send/Return Jacks & (2) Conductor 1/4" Speaker Outputs
- Built-In Reverb with Individual Channel Controls
- Master Effects Controls with Echo, Delay & Effects Volume
- Equalizer Control For Each Input
- Convenient Carry Handle
- Built-in Cooling Fan

Technical Specs:

- Maximum Power Output: 150 Watt / 4 Ohm
- Frequency Response: 20Hz - 20kHz +1dB
- (Lo-Z) Mic Impedance: 1K Ohm
- (Hi-Z) Mic/Line Impedance: 33K Ohm
- Impedance Gain
- Gain Range: +10 to +60dB
- Master EQ Control Ranges: +/- 12dB
- Channel Tone Adjustment: +/-15dB
- S/N Ratio: 110dB / 112dB A-Weighted
- Max. Input Level +12dBu @ +10dB Gain
- Distortion (THD+ N): 0.005% / 0.004%
- Power: 110/220 Voltage Switchable
- Dimensions: 12.9"W x 8.3"H x 10.5"D

PMX402M

- 4-Channel System Power Mixer
- (4) Balanced 3-Pin Microphone Inputs
- (4) 1/4" High Impedance Inputs
- Aux (3.5mm) Input Connector Jack
- Connect iPod, MP3 Players, iPhone, Smartphones, Tablets, etc.
- Master System EFFX, EQ & Volume Controls
- 5-Band Graphic Equalizer
- USB Flash & SD Memory Card Readers
- LCD Digital Display Screen with Touch Button Controls
- Independent Channel EQ, Treble, Bass, Reverb Controls
- 1/4" Send/Return Jacks & (2) Conductor ¼" Speaker Outputs
- RCA (L/R) Record Connector Jacks
- 1/4" Headphone Output
- Convenient Carry Handle
- Built-in Cooling Fan

Technical Specs:

- Maximum Power Output: 400 Watts 4-Ohms
- Frequency Response: <10Hz - 150Hz (-1dB)
- Max. Input Level +12dBu @ +10dB Gain
- S/N Ratio: 110dB / 112dB A-Weighted
- Channel Tone Adjust (+/-15dB)
- Gain Range: +10 to +60dB
- Master EQ Control Ranges: +/- 12dB
- Distortion (THD+ N): 0.005% / 0.004%
- Power: 110/220 Voltage Switchable
- Dimension: 15.75" x 12.01" x 7.87"

PMX602M

- 6-Channel System Power Mixer
- (6) Balanced Microphone Inputs
- (6) 1/4" Line/High Impedance Inputs
- Aux (3.5mm) Input Connector Jack
- Connect iPod, MP3 Players, iPhone, Smartphones, Tablets, etc.
- Master System EFFX, EQ & Volume Controls
- 5-Band Graphic Equalizer
- USB Flash & SD Memory Card Readers
- LCD Digital Display Screen with Touch Button Controls
- Independent Channel EQ, Treble, Bass, Reverb Controls
- 1/4" Send/Return Jacks & (2) Conductor ¼" Speaker Outputs
- RCA (L/R) Record Connector Jacks
- 1/4" Headphone Output
- Built-in Cooling Fan

Technical Specs:

- Maximum Power: 600 Watt / 4 Ohms
- Frequency Response: <10Hz - 150Hz (-1dB)
- Max. Input Level +12dBu @ +10dB Gain
- S/N Ratio: 110dB / 112dB A-Weighted
- Channel Tone Adjust (+/-15dB)
- Gain Range: +10 to +60dB
- Master EQ Control Ranges: +/- 12dB
- Distortion (THD+ N): 0.005% / 0.004%
- Power: 110/220 Voltage Switchable
- Dimensions (L x W x H): 15.9" x 10.6" x 8.3"

PMX802M

- 8-Channel System Power Mixer
- (8) Balanced Microphone Inputs
- (8) 1/4" Line/High Impedance Inputs
- Aux (3.5mm) Input Connector Jack
- Connect iPod, MP3 Players, iPhone, Smartphones, Tablets, etc.
- Master System EFFX, EQ & Volume Controls
- 5-Band Graphic Equalizer
- USB Flash & SD Memory Card Readers
- LCD Digital Display Screen with Touch Button Controls
- Independent Channel EQ, Treble, Bass, Reverb Controls
- 1/4" Send/Return Jacks & (2) Conductor ¼" Speaker Outputs
- RCA (L/R) Record Connector Jacks
- 1/4" Headphone Output
- Built-in Cooling Fan

Technical Specs:

- Maximum Power: 800 Watt / 4 Ohms
- 125 Watt RMS x2 @8 Ohms
- Frequency Response: <10Hz - 150Hz (-1dB)
- Max. Input Level +12dBu @ +10dB Gain
- S/N Ratio: 110dB / 112dB A-Weighted
- Channel Tone Adjust (+/-15dB)
- Gain Range: +10 to +60dB
- Master EQ Control Ranges: +/- 12dB
- Distortion (THD+ N): 0.005% / 0.004%
- Power: 110/220 Voltage Switchable
- Dimensions: 20.28" x 12.01" x 7.87"